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SMC8612T

TigerSwitch™ 12-Port Gigabit 10/100/1000 Managed Switch with 4 mini-GBIC ports

OVERVIEW

The power of up to 24Gbps in a 1RU box!

The TigerSwitch 10/100/1000 brings you the power of 24Gbps in a rack mountable 1RU footprint. Without rewiring your Ethernet network, SMC8612T offers twelve auto-MDIX tri-speed ports over a feature-rich platform for bandwidth-starved networks. Features onboard this small but robust switch include: security authentication with RADIUS or SSH, complete QoS for today's multimedia applications featuring VLANs with GVRP and IGMP snooping, jumbo frame of up to 9K support, and standard management tools such as SNMP, RMON, and Spanning- Tree.

The TigerSwitch 10/100/1000 is ideal for envionment that requires power applications or gradual network migration toward gigabit. This TigerSwitch is perfect for bandwidth hungry wiring closet.

FEATURES	BENEFITS
Full wire-speed non-blocking switching performance	Supports up to 12 auto-MDIX 10/100/1000 ports with 4 associated mini-GBIC slots for optional gigabit fiber plug-in
VLAN with GVRP	Supports VLANs based on tags, ports plus support for automatic GVRP LAN registration
IGMP snooping	IGMP allows multicast traffic transmission to registered users only
LACP for link aggregation	Port trunking group links between switches, increases bandwidth for dedicated link
Port and system security	RADIUS and IEEE802.1x for network access authentication and SSH/SSL encryption for network management traffic

SMC Networks

TECHNICAL SPECIFICATIONS SMC8612T

PORTS
- 12 10/100/1000BASE-T ports
- 4 mini-GBIC slots for media expansion

NETWORK MEDIA
- 10BASE-T: RJ-45 UTP Cat. 3,4,5
- 100BASE-TX: RJ-45 UTP Cat. 5
- 1000BASE-T: RJ-45 UTP Cat. 5

LEDs
- System (power, RPS, Diag.)
- Port (full duplex, activity)
- Link (speed, link, disable/partition)

DIMENSIONS
- 17.37 X 13.9 X 1.7 in
- 44.0 X 25.4 X 4.3 mm
- 1RU, Rackmount kit included
- Wallmount kit available for ordering

WEIGHT
- 9.5Lb / 4.26 Kg

HUMIDITY
- Operating 5% to 95% (non-condensing)

TEMPERATURE
- Operating: 32 – 122° F / 0 – 50° C
- Storage: -40 – 158° F / -40 – 70° C

WARRANTY
- Limited Lifetime

AGGREGATED BANDWIDTH
- .24Gbps

BUFFER ARCHITECTURE
- .32Mb per system

SWITCHING DATABASE
- 32K MAC address entries

AC INUT
- 100 to 240V, 50-60 Hz

POWER SUPPLY
- Internal, auto-ranging transformer: 90 to 260 VAC, 47 to 63 Hz
- Redundant DC inpu

POWER CONSUMPTION
- 48W Max.

HEAT DISSIPATION
- 239 BTU/hr

MAXIMUM CURRENT
- 0.5A @ 110VAC, 0.7 A @ 240VAC

MTBF
- 6 years (estimated)

SWITCH FEATURES

SPANNING TREE PROTOCOL
- Spanning Tree Protocol

FLOW CONTROL
- Full Duplex: IEEE802.3x
- Half Duplex: back pressure

VLAN SUPPORT
- Up to 255 groups; port-based or with 802.1Q
- VLAN tagging, GVRP for automatic VLAN learning

QUALITY OF SERVICE
- Supports four levels of priority and weighted fair queuing

SNMPv1, v2c
- RMON (history, alarm, statistics, and events

BROADCAST STORM CONTROL
- Link Aggregation
- Port Mirroring

MANAGEMENT FEATURES
- Telnet, CLI, SLIP, Web-based HTTP, or SNMP manager
- RS-232 DB-9 console port
- Syslog remote logging

Software Loading
- TFTP in-band or Xmodem out-of-band, dual image

MIB SUPPORT
- MIB II (RFC 1213), Bridging MIB (RFC 1493), Ethernet-Like MIB (RFC 1643), RMON MIB (RFC 1757), RADIUS authentication client MIB (RFC2618), SMC's private MIB

RMON SUPPORT
- Groups 1,2,3, 9 (Statistics, History, Alarm, Event)

STANDARD
- IEEE802.3 Ethernet, IEEE802.3u Fast Ethernet, IEEE802.3z Gigabit Ethernet
- IEEE802.1D Spanning Tree Protocol and traffic priorities
- IEEE802.1P Priority tags
- IEEE802.1Q VLAN
- IEEE802.1ac VLAN tagging
- IEEE802.1ad Link aggregation control protocol
- IEEE802.1w Fast Spanning Tree
- IEEE802.1x

ISO
- IEC8802.3
  SNMP (RFC 1157), SNMP RMON (RFC 1757), ARP (RFC826), IEGMP (RFC1157), IGMP (RFC1112), MIB II (RFC 1213), Ethernet-like MIB (RFC1643), Bridge MIB (RFC 1493), RADIUS (RFC2618)

COMPLIANCES
- CE Mark

EMISSIONS
- FCC Class A
- Industry Canada Class A
- EN55022 (CISPR 22) Class A
- VCCI A
- C-Tick – AS/NZS 3548 (1995) Class A

IMMUNITY
- IEC 1000 – 4 -2/3/4/6

SAFETY
- CSA/NRTL (CSA22.2.2950 & UL 1950), EN60950 (TUV/GS)

OPTIONALPLUG-IN TRANSCEIVER

MODEL
- SMCBGSLCX1
- SMCBGLLCX1
- SMCBGZLCX1

PORTS
- (1) 1000Base-SX
- (1) 1000Base-LX
- (1) 1000BASE-ZX

NETWORK INTERFACE
- LC connector, 50/125 or 62.5/125 micron multimode fiber cable
- LC connector, 9/125 micron fiber cable

STANDARDS
- 802.3z Gigabit Ethernet

TRANSMISSION
- Full-Duplex

OPTIONAL BUDGET
- 9DB

RANGE
- 1000BASE-SX
  - Range: 220m for 62.5/125m, 850nm
  - Range: 550m for 50/125m, 850nm
- 1000BASE-LX
  - Range: 5km for 9/125m, 1310nm
- 1000BASE-ZX
  - Range: up to 100Km

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